

Title (en)
METHOD OF RECOVERING GALLIUM FROM SCRAP CONTAINING GALLIUM

Publication
EP 0219213 B1 19900718 (EN)

Application
EP 86306700 A 19860829

Priority
• JP 16272786 A 19860709
• JP 20312085 A 19850913

Abstract (en)
[origin: EP0219213A2] Scrap containing gallium and arsenic is treated with chlorine gas to form a crude gallium and arsenic chloride mixture. Arsenic chloride and impurities having a lower boiling point than that of arsenic chloride are removed from the mixture by vaporization so that crude gallium chloride may be obtained. The crude gallium chloride is purified by distillation. The purified gallium chloride is electrolyzed to yield metallic gallium. If the scrap has a molar gallium/arsenic ratio exceeding 1, arsenic chloride or metallic arsenic or both are added to the scrap before it is treated with chlorine gas.

IPC 1-7
C01G 15/00; **C22B 7/00**; **C22B 58/00**

IPC 8 full level
C01G 15/00 (2006.01); **C01G 28/00** (2006.01); **C22B 7/00** (2006.01); **C22B 58/00** (2006.01); **C25C 1/22** (2006.01)

CPC (source: EP)
C01G 15/00 (2013.01); **C01G 28/007** (2013.01); **C22B 7/002** (2013.01); **C22B 58/00** (2013.01); **C25C 1/22** (2013.01); **Y02P 10/20** (2015.11)

Cited by
EP0335147A1; EP0318383A1; FR2624524A1; US5122241A; WO8904878A1; EP0271845B1

Designated contracting state (EPC)
BE CH DE FR LI

DOCDB simple family (publication)
EP 0219213 A2 19870422; **EP 0219213 A3 19880615**; **EP 0219213 B1 19900718**; DE 3672741 D1 19900823

DOCDB simple family (application)
EP 86306700 A 19860829; DE 3672741 T 19860829